

WHAT IS CLAIMED IS:

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1. A method of providing an identifier for a file, said method comprising:  
accessing said file;  
deriving a frequency representation of said file;  
providing a file name for said file;  
providing said file name in a directory;  
associating said frequency representation of said file with said file name so  
that said frequency representation is accessible via said directory.

2. The method as described in claim 1 wherein said frequency  
representation comprises a Fast Fourier Transform.

3. The method as described in claim 1 and further comprising:  
configuring an address listing with an identifier for said frequency  
representation.

4. A method of searching for a file, said method comprising:  
obtaining a first frequency representation of a desired file;  
accessing a first unknown file;  
obtaining a second frequency representation of said unknown file;  
comparing said first frequency representation with said second frequency  
representation; and  
determining from said comparing whether said unknown file is said desired  
file.

5. The method as described in claim 4 wherein said obtaining said first  
frequency representation of said desired file comprises:  
performing a Fast Fourier Transform algorithm.

Sub A1 7

1 6. The method as described in claim 4 wherein said obtaining said first  
2 frequency representation comprises performing a Discrete Fourier Transform.

1 7. The method as described in claim 4 wherein said comparing said first  
2 frequency representation with said second frequency representation comprises:  
3 comparing a range of frequencies of said first and second frequency  
4 representations.

1 8. The method as described in claim 4 and further comprising:  
2 decoding said unknown file.

1 9. A method of determining redundancies in a content object directory,  
2 said method comprising:  
3 accessing a plurality of files stored on a memory, wherein each of said files is  
4 configured so as to be identified by a fingerprint;  
5 for each of said files, determining said fingerprint;  
6 establishing a redundancy standard so as to indicate whether any two of said  
7 fingerprints of said files are redundant of one another;  
8 comparing said fingerprints determined for each of said files;  
9 determining redundant files based upon said comparing said fingerprints and  
10 said redundancy standard.

1 10. The method as described in claim 9 and further comprising:  
2 deleting at least one redundant file from said memory.

1 11. The method as described in claim 9 and further comprising:  
2 utilizing a Fast Fourier Transform algorithm to compute said fingerprint.

1 12. The method as described in claim 9 and further comprising:  
2 utilizing a watermark as said fingerprint.

